



City of Lake Stevens – Fire Alarm Submittal Requirements

The following requirements have been established for the submittal of plans and specifications for all fire alarm systems being installed within this jurisdiction. Submittals not conforming to these minimum requirements will be returned as incomplete.

These requirements apply to:

- All new required or non-required fire alarm system installations in either new buildings or existing buildings except for single-family residences.
- New fire alarm systems installed in single-family residences when the system replaces the required multiple-station smoke detectors.

Fire alarm systems shall be designed, installed, and maintained in accordance with National Fire Protection Association (NFPA) 72-2002 edition with the following change: Systems with water flow devices shall alarm at an outside bell/strobe device.

Submittal Requirements

- 1. Complete City of Lake Stevens permit application.
- 2. Provide three (3) copies of plans and three (3) sets of technical data sheets.
- 3. A current copy of the Department of Labor & Industries Contractor's License.
- 4. System should be designed and wet stamped by a National Institute for Certification Engineering Technologies (NICET) Level II, III or IV fire alarm system designer.
- 5. Provide details for conductors on the plans, including type, manufacturer, and size.
- 6. Drawings shall be legible, scaled, and contain only the fire alarm components (EXCEPTION: security system components may be included).
- 7. Drawings shall include details showing the installation of exterior and underground fire alarm components, transition from exterior to interior, manual fire alarms and strobes (including installation height), Fire Alarm Control Panel (FACP), door hold-open devices, heat and smoke detectors (indicate type), all other detectors, fire sprinkler water flow and control valves.
- 8. All symbols shall conform to NFPA 170 standards where applicable. A symbol key shall be included in the submittal documentation for all non-standard symbols.
- 9. A floor plan shall be provided indicating the location of devices and appliances, end of line devices, conduit wire runs, conduit sizes, and number and size of conductors. The zone indication shall be placed adjacent to the appropriate end of line device.





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- 10. Buildings with a floor area in excess of 10,000 sf shall be protected with an addressable fire alarm system
- 11. When two or more zones are required, they shall be designed to assist in providing responders with fire alarm location. When two or more zones are required, a zone schedule shall be provided in the documentation indicating zone designation, type of device(s) on the zone, and location information.
- 12. Voltage drop calculations, circuit amperage, and power supply (battery) calculations to include standby and alarm conditions shall be submitted. Standby power requirements shall conform to the type of system being installed. (NOTE: Where security system components are powered from the FACP, they shall be included in the battery calculations).
- 13. At the completion of the project, a copy of "as built" drawings shall be provided to the owner/occupant with written operating instructions and maintenance and testing information for the fire alarm system. Such documentation shall be maintained on site and accessible to the authority having jurisdiction (AHJ) and the fire alarm system service provider at all times.
- 14. An L & I electrical permit with the final approval is required <u>prior to acceptance testing</u>.
- 15.A Compliance Statement (available at www.lsfire.org) shall be completed and returned prior to scheduling acceptance testing.
- 16. After acceptance testing has been completed and witnessed by a representative of the AHJ, a completed, NFPA Certificate of Compliance shall be provided by the installing company to the AHJ and the owner/ occupant.
- 17. Listed central station monitoring must be achieved through a certificated or placarded central station. A copy of the certificate or placard of the intended central station must accompany the submittal.